

IN THE CLAIMS

This listing of the claim will replace all prior versions and listings of claim in the present application.

Listing of Claims

Claims 1-8 (canceled).

9. (original) A visual device comprising array operation units arranged in the shape of a lattice in a data processing device that realizes means for detecting position and size of object areas, wherein each of said array operation units comprises:

means for initializing said array operation unit;

means for finishing processing if there is not a rough edge-information image to input any more;

means for inputting a band-pixel value in said rough edge-information image;

means for converting said band-pixel value in said rough edge-information image to a band-pixel value in a redundant-information image;

means for converting a transfer value derived from said redundant-information image to a band-pixel value in a transfer-value image by operating imagery of position;

means for transferring said band-pixel value in said redundant-information image to a transfer position directed by said band-pixel value in said transfer-value image;

means for updating said band-pixel value in said redundant-information image by summation of said band-pixel values transferred from their original positions in said redundant-information image; and

means for outputting said band-pixel value in said redundant-information image.

Claims 10-14 (canceled).